

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	4561	((320/119,108,103,116,118,120,121,122,125,134,136,141,162,164) or (324/433,434)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/01 16:56
L3	139	L2 and @pd>="20060815"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/01 16:57
L4	1016	(balanc\$3 or equaliz\$5) and (SOC state\$1of\$1charge or Amp-hr or Ampere-hour or (voltage adj level)) and ((battery or ((energy or electrical or cell or unit) near3 (storage or storing)) or accumulator) near3 (plural or many or multiple or multitude or numerous or various or string))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/01 16:58
L5	572	L4 and (converter or transformer or buck or boost or fly\$1back or buck-boost)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/01 16:58
L6	156	L5 and (bi\$1directional or ((both or each) adj (direction or pathway or path)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/01 16:58
L7	20	L6 and @pd>="20060815"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/01 17:26
L16	22	((balanc\$3 or equaliz\$5) AND (S\$1O\$1C\$1 or state\$1of\$1charge or Amp-hr or Ampere-hour or (voltage adj level)) AND (battery or ((energy or electrical or cell or unit) near3 (storage or storing)) or accumulator) AND (plural or many or multiple or multitude or numerous or various or string)).clm.	US-PGPUB	OR	ON	2007/04/01 19:46

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L17	47	((balanc\$3 or equaliz\$5) AND (\$10\$1C\$1 or state\$1of\$1charge or Amp-hr or Ampere-hour or (voltage with level)) AND (battery or ((energy or electrical or cell or unit) with (storage or storing)) or accumulator) AND (plural or many or multiple or multitude or numerous or various or string)).clm.	US-PGPUB	OR	ON	2007/04/01 19:47
L18	92	((balanc\$3 or equaliz\$5) AND (\$10\$1C\$1 or state\$1of\$1charge or Amp-hr or Ampere-hour or (voltage with level)) AND (battery or ((energy or electrical or cell or unit) with (storage or storing)) or accumulator) AND (plural or many or multiple or multitude or numerous or various or string)).clm.	US-PGPUB; USPAT	OR	ON	2007/04/01 19:52
L19	234	((balanc\$3 or equaliz\$5) AND (\$10\$1C\$1 or state\$1of\$1charge or Amp-hr or Ampere-hour or (voltage with level)) AND (battery or (energy or electrical or cell or unit) or accumulator) AND (plural or many or multiple or multitude or numerous or various or string)).clm.	US-PGPUB; USPAT	OR	ON	2007/04/01 19:49
L21	506	((balanc\$3 or equaliz\$5) AND (\$10\$1C\$1 or state\$1of\$1charge or Amp-hr or Ampere-hour or (voltage with level)) AND (battery or ((energy or electrical or cell or unit) with (storage or storing)) or accumulator)).clm.	US-PGPUB; USPAT	OR	ON	2007/04/01 19:53
L23	21	((balanc\$3 or equaliz\$5) AND (\$10\$1C\$1 or state\$1of\$1charge or Amp-hr or Ampere-hour or (voltage with level)) AND (battery or (energy or electrical or cell or unit) or accumulator) AND (pulse\$1width\$1modulator or P\$1W\$1M\$1 or pulse\$1generator or (pulse with modulator))).clm.	US-PGPUB; USPAT	OR	ON	2007/04/01 19:56
S1	151	(320/119).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/07 13:41
S2	21	(("0432639") or ("0156062") or ("2080332") or ("0209223") or ("2093712") or ("0223664") or ("0863598") or ("0958634") or ("1014533") or ("1158647")).PN.	EPO; DERWENT	OR	OFF	2005/12/06 09:40

## EAST Search History

S3	16	(("2000193694") or ("2001136669") or ("2001325994") or ("2002238171") or ("2002345159") or ("200377548") or ("10084627") or ("11103534")).PN.	JPO; DERWENT	OR	OFF	2005/12/06 09:42
S4	31	(("1325994") or ("2142377") or ("2238171") or ("2345159") or ("3077548") or ("5438250") or ("5656915") or ("6008623") or ("6157167") or ("6239579") or ("6278604") or ("6285161") or ("6288521") or ("6337555") or ("6329796") or ("6351097") or ("6356055") or ("6369546") or ("6441583") or ("6504344") or ("6518725") or ("20020047685") or ("20020167294") or ("20020190692") or ("20020195994") or ("20030139888")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/06 09:46
S6	213	(320/108).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/06 16:38
S7	150	(320/118).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/06 16:39
S8	169	(320/121).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/07 14:05
S9	368	(320/125).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/06 16:39
S10	4237	((320/119,108,103,116,118,120,121,122,125,134,136,141,162,164) or (324/433,434)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/18 16:02
S13	11	"432639"	EPO; DERWENT	OR	ON	2005/12/07 13:47

## EAST Search History

S14	4	((("5767660") or ("5821729")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/07 13:48
S15	812	(balanc\$3 or equaliz\$5) and (SOC state\$1of\$1charge or Amp-hr or Ampere-hour or (voltage adj level)) and ((battery or ((energy or electrical or cell or unit) near3 (storage or storing)) or accumulator) near3 (plural or many or multiple or multitude or numerous or various or string))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/01 19:43
S16	453	S15 and (converter or transformer or buck or boost or fly\$1back or buck-boost)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/07 14:17
S17	106	S16 and bi\$directional	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/07 14:17
S18	118	S16 and (bi\$1directional or ((both or each) adj (direction or pathway or path)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/18 16:06
S19	226	S16 and (voltage near3 (monitor\$3 or detect\$3 or sens\$3)) and (current near3 (monitor\$3 or detect\$3 or sens\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/07 14:21
S20	97	S19 and (op\$1amp or operational\$1amplifier or comparator) and (reference near5 voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/07 14:22
S21	41	S20 and (inductor or transformer) and (switch or MOSFET or FET or BJT or IGBT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/07 14:25
S22	30	S21 and capacitor and (PWM or (puls\$3 near4 (generator or modulator)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/07 14:24

## EAST Search History

S23	7	S22 and (bi\$1directional or ((both or each) adj (direction or pathway or path)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/07 14:25
S24	1	("5003244").PN.	US-PGPUB; USPAT	OR	OFF	2005/12/09 10:14
S25	72	((("4502001") or ("4719401") or ("4949028") or ("4967136") or ("5304915") or ("5387857") or ("5498950") or ("5526215") or ("5548201") or ("5592067") or ("5631534") or ("5644209") or ("5666041") or ("5710504") or ("5717313") or ("5764027") or ("5889385") or ("5912547") or ("5920179") or ("5945810") or ("5982143") or ("5982144") or ("6043627") or ("6064178") or ("6114835") or ("6140800") or ("6222344") or ("6225780") or ("6271645") or ("6275004") or ("6291972") or ("6297619") or ("6310463") or ("6340880") or ("6373223") or ("6437539") or ("20050140335"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/18 16:01
S26	36	((("4502001") or ("4719401") or ("4949028") or ("4967136") or ("5304915") or ("5387857") or ("5498950") or ("5526215") or ("5548201") or ("5592067") or ("5631534") or ("5644209") or ("5666041") or ("5710504") or ("5717313") or ("5764027") or ("5889385") or ("5912547") or ("5920179") or ("5945810") or ("5982143") or ("5982144") or ("6043627") or ("6064178") or ("6114835") or ("6140800") or ("6222344") or ("6225780") or ("6271645") or ("6275004") or ("6291972") or ("6297619") or ("6310463") or ("6340880") or ("6373223") or ("6437539") or ("20050140335"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/18 16:01
S27	4427	((320/119,108,103,116,118,120,121,122,125,134,136,141,162,164) or (324/433,434)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/18 16:02

## EAST Search History

S28	195	S27 and @pd>="20051201"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/01 16:56
S29	914	(balanc\$3 or equaliz\$5) and (SOC state\$1of\$1charge or Amp-hr or Ampere-hour or (voltage adj level)) and ((battery or ((energy or electrical or cell or unit) near3 (storage or storing)) or accumulator) near3 (plural or many or multiple or multitude or numerous or various or string))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/18 16:06
S30	511	S29 and (converter or transformer or buck or boost or fly\$1back or buck-boost)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/18 16:06
S31	136	S30 and (bi\$1directional or ((both or each) adj (direction or pathway or path)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/18 16:06
S32	18	S31 and @pd>="20051201"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/01 16:58
S33	253	S30 and (voltage near3 (monitor\$3 or detect\$3 or sens\$3)) and (current near3 (monitor\$3 or detect\$3 or sens\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/18 17:07
S34	110	S33 and (op\$1amp or operational\$1amplifier or comparator) and (reference near5 voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/18 17:07
S35	13	S34 and @pd>="20051201"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/18 17:08